

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	53	@ad<="20031022" and ("PCB" or "printed circuit board" or "wiring substrate") same "de-coupling"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 07:58
L2	252	@ad<="20031022" and embed\$4 with capacitor same ("printed circuit board" or "wiring substrate" or "PCB")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 08:00
L3	101	@ad<="20031022" and embed\$4 adj1 capacitor same ("printed circuit board" or "wiring substrate" or "PCB")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 08:00
L4	32	("4065742"   "4409608"   "4437140"   "4460938"   "4490429"   "4650544"   "4878155"   "4908258"   "5010641"   "5027253"   "5065284"   "5079069"   "5155655"   "5161086"   "5162977"   "5261153"   "5347258"   "5656834").PN. OR ("6068782").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/16 08:18
L5	2	("6317023").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 08:18
S1	722	@ad<="20031022" and 'PCB' and 'signal trace'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 15:13
S2	71	@ad<="20031022" and 'PCB' and 'signal trace' and 'low impedance'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 08:49
S3	140	@ad<="20031022" and 'differential' with 'signal trace'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 10:59
S4	49	@ad<="20031022" and 'PCB' and 'differential' with 'signal trace'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 09:12
S5	1	"6005895".PN.	USPAT; USOCR	OR	ON	2005/01/12 08:59

## EAST Search History

S6	1	"5956518".PN.	USPAT; USOCR	OR	ON	2005/01/12 09:00
S7	7	@ad<="20031022" and 'copper trace' same 'coupling' same 'dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 09:21
S8	70	@ad<="20031022" and 'copper' with 'high dielectric' same 'low dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 09:42
S9	115	@ad<="20031022" and 'interconnection' and 'copper layer' and 'high dielectric' and 'low dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 09:42
S10	13	@ad<="20031022" and 'differential' with 'signal line' and 'high dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 10:29
S11	735	@ad<="20031022" and (257/664-665).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 12:17
S12	585	@ad<="20031022" and 'differential signal line'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 10:48
S13	44	@ad<="20031022" and 'differential signal trace'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 10:30
S14	51	@ad<="20031022" and 'differential signal line' same 'coupling'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 10:45
S15	3	@ad<="20031022" and 'differential signal line' same 'dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 10:50
S16	24	@ad<="20031022" and 'PCB' and 'differential signal line'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 10:50

## EAST Search History

S17	1	'PCB' and 'base layer' and 'ground plane' and 'stripline'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 11:00
S18	356	'PCB' and 'stripline'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 13:30
S19	320	'PCB' and 'stripline' and 'signal'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 11:28
S20	1	"6201194".PN.	USPAT; USOCR	OR	ON	2005/01/12 11:03
S21	1	"6175087".PN.	USPAT; USOCR	OR	ON	2005/01/12 11:04
S22	1	"6171946".PN.	USPAT; USOCR	OR	ON	2005/01/12 11:06
S23	1	"6026564".PN.	USPAT; USOCR	OR	ON	2005/01/12 11:07
S24	245	'PCB' and 'stripline' and 'signal' and 'dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 11:10
S25	20	'PCB' and 'stripline' and 'signal' and 'high dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 11:10
S26	10	'Electromagnetic coupler circuit board'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 11:29
S27	356	'Electromagnetic coupler'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 11:31
S28	217	'Electromagnetic coupler' and 'signal'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 11:40
S29	38	'Electromagnetic coupler' and 'signal line'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 11:43

## EAST Search History

S30	102	'Electromagnetic' with 'coupling' and 'signal trace'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 11:58
S31	4915	'Electromagnetic' with 'coupling' and 'dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 12:02
S32	497	'Electromagnetic' with 'coupling' and ' high dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 12:03
S33	20	'PCB' and 'Electromagnetic' with 'coupling' and ' high dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 12:03
S34	1685	@ad<="20031022" and (257/734-736).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 13:38
S35	1483	@ad<="20031022" and (257/700).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 12:07
S36	1105	@ad<="20031022" and (257/750).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 13:34
S37	879	@ad<="20031022" and (257/762).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 12:08
S38	648	@ad<="20031022" and (257/211).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 12:08
S39	2	("0691193").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/12 12:17

## EAST Search History

S40	2	("6449308").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/12 13:07
S41	7	((("3615951") or ("6705895")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/12 13:07
S42	27	@ad<="20031022" and 'PCB' same 'FR4' same 'resin' same 'fiber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 13:36
S43	96	@ad<="20031022" and 'FR4' with 'resin' with 'fiber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/12 13:36
S44	1	"20050087877"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 14:33
S45	30	@ad<="20031022" and 'PCB' and 'copper' and 'epoxy' with 'fiber' and 'solder mask' and 'filler'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 15:21
S46	1	@ad<="20031022" and 'PCB' and 'copper' and 'epoxy' with 'fiber' and 'solder mask' and 'filler' with 'polyvinylidene'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 14:42
S47	19	@ad<="20031022" and 'copper' same 'filler' with 'polyvinylidene'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 08:24
S48	0	@ad<="20031022" and 'copper' same 'filler' with 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 08:25
S49	0	@ad<="20031022" and 'coper' same 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 14:44

## EAST Search History

S50	0	@ad<="20031022" and 'coper' and 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 14:44
S51	0	@ad<="20031022" and 'PCB' and 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 14:44
S52	107	@ad<="20031022" and 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 14:47
S53	21	@ad<="20031022" and 'dielectric' and 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 11:04
S54	69	@ad<="20031022" and 'FR4' and 'copper' with 'solder mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 15:21
S55	25	@ad<="20031022" and 'circuit board' and 'trace' with 'high dielectric'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 09:15
S56	1	"4967314".PN.	USPAT; USOCR	OR	ON	2005/04/29 08:17
S57	2	@ad<="20031022" and 'trace' with 'high dielectric' same 'solder'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 09:15
S58	150	@ad<="20031022" and 'PCB' and 'signal trace' and 'mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 09:39
S59	11	@ad<="20031022" and 'PCB' and 'signal trace' with 'mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 10:18
S60	71	@ad<="20031022" and 'PCB' and 'copper' with 'trace' with 'mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 09:48

## EAST Search History

S62	0	@ad<="20031022" and 'PCB' and 'copper' with 'trace' with 'mask' and 'high k'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 09:48
S63	4	Han-Dong-Ho.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 10:18
S64	18	@ad<="20031022" and 'trace' with ('polyvinylidene diflouride' or pvdf)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 11:09
S65	338	@ad<="20031022" and 'copper' with ('polyvinylidene diflouride' or pvdf)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 07:57
S66	0	@ad<="20031022" and 'solder mask' same 'copper' with ('polyvinylidene diflouride' or pvdf)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 11:10
S67	5	@ad<="20031022" and 'PCB' and 'copper' with ('polyvinylidene diflouride' or pvdf)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 11:17
S68	0	@ad<="20031022" and 'PCB' and 'copper' and 'filler' with ('polyvinylidene diflouride' or pvdf)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 11:17
S69	153	@ad<="20031022" and 'filler' with ('polyvinylidene diflouride' or pvdf)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 11:17
S70	0	@ad<="20031022" and 'copper' same 'filler' with ('polyvinylidene diflouride' or pvdf)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 11:18
S71	321	@ad<="20031022" and 'PCB' same 'filler'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 15:02
S72	49	@ad<="20031022" and 'PCB' same 'filler' and 'mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 14:53

## EAST Search History

S73	1	"4361634".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:25
S74	1	"5150088".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:27
S75	1	"5185502".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:28
S76	1	"5185502".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:30
S77	1	"5278524".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:31
S78	1	"5278524".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:32
S79	1	"5677515".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:32
S80	1	"5719750".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:33
S81	1	"6072690".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:33
S82	1	"4567542".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:33
S83	1	"5400210".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:39
S84	1	"5378662".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:39
S85	1	"5371403".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:39
S86	1	"5177670".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:39
S87	1	"5027253".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:43
S88	1	"4999520".PN.	USPAT; USOCR	OR	ON	2005/07/01 14:43
S89	2	("5133120").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/01 14:54
S90	0	@ad<="20031022" and 'photo solder resist' with 'dielectric constant'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 15:03
S91	0	@ad<="20031022" and 'dielectric constant' with 'photo solder resist'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 15:03



## EAST Search History

S92	19	@ad<="20031022" and 'solder resist' with 'dielectric constant'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 15:10
S93	0	@ad<="20031022" and 'dielelectric constant' with 'solder resist'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 15:03
S94	1	@ad<="20031022" and 'impedance' same 'insulative' and 'solder resist' and 'PCB'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 15:14
S95	70	@ad<="20031022" and 'impedance' same 'insulative' and 'PCB'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 15:17
S96	43	@ad<="20031022" and 'MULTILAYER PRINTED WIRING BOARD' same 'impedance'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 15:18
S97	157	@ad<="20031022" and 'MULTILAYER PRINTED WIRING BOARD' same 'filler'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 15:45
S98	4	@ad<="20031022" and 'MULTILAYER PRINTED WIRING BOARD' same 'filler' and 'solder mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/01 15:18
S99	7	@ad<="20031022" and 'PRINTED WIRING BOARD' same 'dielectric filler'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 06:35
S10 0	2	("5162997").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/04 06:30
S10 1	1	"4306273".PN.	USPAT; USOCR	OR	ON	2005/07/04 06:32
S10 2	3	@ad<="20031022" and 'wiring board' and 'trace' with 'permittivity'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 06:39

## EAST Search History

S10 3	554	@ad<="20031022" and 'wiring board' same 'capacitance'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 06:40
S10 4	3	@ad<="20031022" and 'wiring board' same 'capacitance' and 'solder mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 06:47
S10 5	17	@ad<="20031022" and 'PCB' same 'capacitance' and 'solder mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 06:47
S10 6	17	@ad<="20031022" and 'PCB' same 'discrete' same 'signal path'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 07:01
S10 7	26	@ad<="20031022" and 'PCB' and 'trace' with 'filler'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 07:27
S10 8	4	((("5162144") or ("5260170")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/04 07:12
S10 9	1	"4590115".PN.	USPAT; USOCR	OR	ON	2005/07/04 07:19
S11 0	1	"4565606".PN.	USPAT; USOCR	OR	ON	2005/07/04 07:19
S11 1	91	@ad<="20031022" and 'FR-4' and 'discrete' same 'trace'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 07:28
S11 2	75	@ad<="20031022" and 'FR-4' and 'discrete' with 'trace'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 07:28
S11 3	75	@ad<="20031022" and 'FR-4' and 'trace' with 'discrete'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 07:28

## EAST Search History

S11 4	13	@ad<="20031022" and 'FR-4' and 'discrete' with 'trace' and 'mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 07:42
S11 5	13	@ad<="20031022" and 'FR-4' and 'capacitance' and 'dielectric filler'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 07:49
S11 6	12	@ad<="20031022" and 'PCB' and 'capacitance' and 'dielectric filler'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 07:49
S11 8	641	@ad<="20031022" and 'copper' with 'polyvinylidene'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 08:39
S11 9	29	@ad<="20031022" and 'copper' and 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 08:38
S12 0	1	@ad<="20031022" and 'lead titanate' same 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 08:33
S12 1	2	@ad<="20031022" and 'lead titanate' and 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 08:37
S12 2	0	@ad<="20031022" and 'dielectric constant' same 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 15:50
S12 3	6	@ad<="20031022" and 'dielectric' same 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 08:37
S12 4	0	@ad<="20031022" and 'copper' same 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 08:38
S12 5	0	@ad<="20031022" and 'conductor' same 'polyvinylidene diflouride'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/04 08:38

## EAST Search History

S12 6	1	@ad<="20031022" and 'copper' with 'polyvinylidene' and 'PCB'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 07:43
S12 7	60	@ad<="20031022" and 'embedded' with 'capacitor' same 'PCB'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 08:33
S12 8	12	@ad<="20031022" and 'embedded' with 'capacitor' same 'PCB' and 'mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 07:59
S12 9	12	@ad<="20031022" and 'embedded' with 'capacitor' and 'PCB' and 'solder mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 08:04
S13 1	2568	@ad<="20031022" and 'dielectric constant' with 'polyimide'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 08:48
S13 2	5	@ad<="20031022" and 'dielectric' and 'PDF' and 'PZT'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 08:49
S13 3	263	@ad<="20031022" and 'dielectric' and 'pvdF' and 'PZT'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 08:55
S13 4	1	@ad<="20031022" and 'dielectric' and 'pvdF' and 'PZT' and 'FR-4'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 08:49
S13 5	9	@ad<="20031022" and 'dielectric' and 'pvdF' and 'PZT' and 'PCB'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 08:51
S13 6	1	"5656834".PN.	USPAT; USOCR	OR	ON	2005/07/05 08:52
S13 7	1	"5347258".PN.	USPAT; USOCR	OR	ON	2005/07/05 08:52
S13 8	1	"5261153".PN.	USPAT; USOCR	OR	ON	2005/07/05 08:53
S13 9	1	"5162977".PN.	USPAT; USOCR	OR	ON	2005/07/05 08:53

## EAST Search History

S14 0	37	@ad<="20031022" and 'dielectric' same 'pvd'f same 'PZT'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 08:58
S14 1	0	@ad<="20031022" and 'dielectric' same 'pvd'f same 'PZT' and 'wiring board'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 08:58
S14 2	4	@ad<="20031022" and 'dielectric' same 'pvd'f same 'PZT' and 'printed circuit board'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/05 10:21
S14 3	10	((("6349456") or ("5079069") or ("5261153") or ("5800575") or ("6274224")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/05 09:33
S14 5	72	@ad<="20031022" and 'embedded capacitor' same 'printed circuit board'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/30 14:21
S14 6	1	"5656834".PN.	USPAT; USOCR	OR	ON	2005/07/05 10:27
S14 7	153	@ad<="20031022" and 'capacitor' same 'printed circuit board' and 'solder mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/30 14:09
S14 8	2	("6618238").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/30 14:09
S14 9	1	"6021050".PN.	USPAT; USOCR	OR	ON	2005/09/30 14:11
S15 0	1	"6016598".PN.	USPAT; USOCR	OR	ON	2005/09/30 14:11
S15 1	1	"5959256".PN.	USPAT; USOCR	OR	ON	2005/09/30 14:11
S15 2	1	"5753358".PN.	USPAT; USOCR	OR	ON	2005/09/30 14:12
S15 3	1	"5120590".PN.	USPAT; USOCR	OR	ON	2005/09/30 14:15
S15 4	1	"5172304".PN.	USPAT; USOCR	OR	ON	2005/09/30 14:15

## EAST Search History

S15 5	73	@ad<="20031022" and 'embedded capacitor' same 'printed circuit board'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/30 15:36
S15 6	1	"5656834".PN.	USPAT; USOCR	OR	ON	2005/09/30 14:30
S15 7	1	"5347258".PN.	USPAT; USOCR	OR	ON	2005/09/30 14:30
S15 8	1	"5261153".PN.	USPAT; USOCR	OR	ON	2005/09/30 14:30
S15 9	1	"5162977".PN.	USPAT; USOCR	OR	ON	2005/09/30 14:30
S16 0	46	@ad<="20031022" and 'dielectric constant' same 'solder mask'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/30 15:37
S16 1	141	@ad<="20031022" and 'embedded with 'capacitor' with 'printed circuit board'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 09:49
S16 2	78	@ad<="20031022" and 'embedded capacitor' same ('printed circuit board' or 'wiring substrate')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 10:58
S16 3	91	@ad<="20031022" and 'embedded capacitor' same ('printed circuit board' or 'wiring substrate' or 'PCB')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 07:59
S16 4	1	"6724638".PN.	USPAT; USOCR	OR	ON	2006/01/13 09:57
S16 5	1	"6349456".PN.	USPAT; USOCR	OR	ON	2006/01/13 09:59
S16 6	1	"6274224".PN.	USPAT; USOCR	OR	ON	2006/01/13 10:00
S16 7	1	"5800575".PN.	USPAT; USOCR	OR	ON	2006/01/13 10:01
S16 8	1	"5590460".PN.	USPAT; USOCR	OR	ON	2006/01/13 10:01
S16 9	1	"5583321".PN.	USPAT; USOCR	OR	ON	2006/01/13 10:02
S17 0	2	("6407929").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/13 10:07

## EAST Search History

S17 1	2	("5162144").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/13 10:58
S17 2	264	@ad<="20031022" and ('printed circuit board' or 'wiring substrate' or 'PCB') same 'embedded' with capacit\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/15 05:40
S17 3	1	"6724638".PN.	USPAT; USOCR	OR	ON	2006/01/13 14:24
S17 4	1	"5656834".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:17
S17 5	1	"5347258".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:17
S17 6	1	"5261153".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:17
S17 7	1	"5162977".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:18
S17 8	1	"5161086".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:18
S17 9	1	"5155655".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:18
S18 0	1	"5079069".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:18
S18 1	1	"5065284".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:18
S18 2	1	"5027253".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:18
S18 3	1	"5010641".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:18
S18 4	1	"4908258".PN.	USPAT; USOCR	OR	ON	2006/01/13 15:19
S18 7	63	@ad<="20031022" and ('printed circuit board' or 'wiring substrate' or 'PCB') with 'embedded capacitor'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 11:00
S18 8	91	@ad<="20031022" and ('printed circuit board' or 'wiring substrate' or 'PCB') same 'embedded capacitor'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/15 05:41
S18 9	12	((("4555745") or ("5172304") or ("4996097") or ("5753358") or ("5674611") or ("5800575")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/15 05:49

## EAST Search History

S19 0	64	@ad<="20031022" and ("printed circuit board" or "wiring substrate" or "PCB" or "CB") with "embedded capacitor"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 11:01
S19 1	93	@ad<="20031022" and ("printed circuit board" or "wiring substrate" or "PCB" or "CB") same "embedded capacitor"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 13:16
S19 2	1	"5469324".PN.	USPAT; USOCR	OR	ON	2006/05/01 13:14
S19 3	1	"5428499".PN.	USPAT; USOCR	OR	ON	2006/05/01 13:14
S19 4	1	"5172304".PN.	USPAT; USOCR	OR	ON	2006/05/01 13:15
S19 5	102	@ad<="20031022" and ("printed circuit board" or "wiring substrate" or "PCB" or "CB" or "wiring board") same "embedded capacitor"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 14:25
S19 8	9	@ad<="20031022" and ("printed circuit board" or "wiring substrate" or "PCB" or "CB" or "wiring board") with capacitor same "solder mask"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 13:24
S19 9	27	@ad<="20031022" and ("printed circuit board" or "wiring substrate" or "PCB" or "CB" or "wiring board") same capacitor same "solder mask"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 13:24
S20 0	379	@ad<="20031022" and "PCB" and "stripline"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 13:31
S20 1	342	@ad<="20031022" and "PCB" and "stripline" and signal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 13:32
S20 2	66	@ad<="20031022" and "PCB" and "stripline" and "signal traces"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 13:32
S20 3	354	@ad<="20031022" and (361/794). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 13:38
S20 4	1	"6072690".PN.	USPAT; USOCR	OR	ON	2006/05/01 13:38



## EAST Search History

S20 5	1	"5719750".PN.	USPAT; USOCR	OR	ON	2006/05/01 13:41
S20 6	1	"5677515".PN.	USPAT; USOCR	OR	ON	2006/05/01 13:41
S20 7	1	"5278524".PN.	USPAT; USOCR	OR	ON	2006/05/01 13:42
S20 8	1	"5185502".PN.	USPAT; USOCR	OR	ON	2006/05/01 13:42
S20 9	1	"5150088".PN.	USPAT; USOCR	OR	ON	2006/05/01 13:43
S21 0	78	@ad<="20031022" and ("multi-layer" or "multilayer") with ("printed circuit board" or "wiring substrate" or "PCB" or "CB" or "wiring board" or "circuit board") same "capacitor" same "high dielectric"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 16:08
S21 1	1	"6128633".PN.	USPAT; USOCR	OR	ON	2006/05/01 14:41
S21 2	1	"5535101".PN.	USPAT; USOCR	OR	ON	2006/05/01 14:41
S21 3	1	"6303977".PN.	USPAT; USOCR	OR	ON	2006/05/01 14:43
S21 4	1	"6291775".PN.	USPAT; USOCR	OR	ON	2006/05/01 14:44
S21 5	1	"6127633".PN.	USPAT; USOCR	OR	ON	2006/05/01 14:44
S21 6	1	"5535101".PN.	USPAT; USOCR	OR	ON	2006/05/01 14:44
S21 7	1	"5315072".PN.	USPAT; USOCR	OR	ON	2006/05/01 14:45
S21 8	2	("6392898").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/01 15:09
S22 0	1396	@ad<="20031022" and "dielectric constant" with "epoxy"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 15:55
S22 1	150	@ad<="20031022" and "dielectric constant" with "BT"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 15:57
S22 2	5	@ad<="20031022" and "dielectric constant" with "bismaleidotriazine"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 15:59

## EAST Search History

S22 3	16	@ad<="20031022" and "dielectric constant" with "bismaleimide triazine"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 16:04
S22 4	3	@ad<="20031022" and "dielectric constant" with "bisphenol F"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 08:39
S22 5	98	@ad<="20031022" and ("multi-layer" or "multilayer") with ("printed circuit board" or "wiring substrate" or "PCB" or "CB" or "wiring board" or "circuit board") same "capacitor" same "dielectric constant"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/01 16:15
S22 6	2	("6,191,934").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/01 16:15
S22 8	22	((("3685026") or ("4977357") or ("4726991") or ("4928199") or ("5142263") or ("5189387") or ("5246388") or ("5248517") or ("5796570"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/02 08:30
S22 9	22	((("3685026") or ("4977357") or ("4726991") or ("4928199") or ("5142263") or ("5189387") or ("5246388") or ("5248517") or ("5796570"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/02 08:24
S23 0	16	((("4298416") or ("4483973") or ("4499234") or ("4514529") or ("4523001") or ("4554338") or ("4563498") or ("4580794"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/02 08:31
S23 1	91	@ad<="20031022" and "silicone rubber" with "dielectric constant"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 09:29
S23 2	529	@ad<="20031022" and ("silicone rubber" or "polyamide" or "PVC") with "dielectric constant"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 08:44

## EAST Search History

S23 3	360	@ad<="20031022" and "polyamide" with "dielectric constant"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 08:44
S23 4	86	@ad<="20031022" and "PVC" with "dielectric constant"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 09:31
S23 5	193	@ad<="20031022" and Polycarbonate with "dielectric constant"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 09:08
S23 6	224	@ad<="20031022" and (fluoropolymer or chlorofluoropolymer) with "dielectric constant"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 08:59
S23 7	9	"surgX corporation" and "variable voltage material"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 09:00
S24 1	171	@ad<="20031022" and Polyurethane with "dielectric constant"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 09:09
S24 2	7552	@ad<="20031022" and ceramic with "dielectric constant"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 09:09
S24 3	10	@ad<="20031022" and "silicone rubber" with "dielectric constant" and "PVDF"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 09:29
S24 4	10	@ad<="20031022" and "PVC" with "dielectric constant" and "PVDF"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 09:32
S24 5	11	@ad<="20031022" and "PVC" same "dielectric constant" same "PVDF"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/02 09:32
S24 7	21	"Roth Weston"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 14:27

## EAST Search History

S24 8	143	"brandt" and "intel"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 14:31
S24 9	2074	(372/45.01).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/15 14:33
S25 0	1713	(257/79).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/15 14:50
S25 1	204	"active layer" with gradual\$4 same thick\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 14:56
S25 3	16	@ad<="20031022" and ("PCB" or "wiring substrate" or "wiring board") same "AC coupling"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 15:20
S25 5	46	@ad<="20031022" and ("PCB" or "wiring substrate") same "increase" with "coupling"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 15:22
S25 6	152	@ad<="20031022" and ("PCB" or "wiring substrate") same increas\$3 with coupl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 15:26
S25 7	2	("5,972,231").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/15 15:26
S25 8	5	("5197170"   "5486277").PN. OR ("5972231").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 15:27
S25 9	15	("4603059"   "4779164"   "4882649"   "5134539"   "5208725"   "5304506"   "5583359"   "5872697"   "5895250"   "5933723"   "5998256"   "6140178"   "6168988").PN. OR ("6323099"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 16:24
S26 0	0	craig-john-walker.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 16:25

## EAST Search History

S26 1	9	craig-john.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 16:25
S26 2	0	craig adj1 john adj1 hawker	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 16:25
S26 3	0	craig with john with hawker	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 16:26
S26 5	84	craig with hawker	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 16:26
S26 6	75	craig with john and "IBM"	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/15 16:26